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tenebroso-oliva, striata, eradiata; dentibus cardinalibus subcrassis, compresso-tuberculatis, subelevatis; margarita alba et valde iridescente.

Hab.—South America, Don Patricio M. Paz.

ANODONTA PAZII.—Testa lævi, subrotunda, valde inflata, inæquilaterali, postice et antice rotundata; valvulis crassiusculis; natibus subprominentibus, acuminatis; epidermide tenebroso-rufo-fusca, eradiata, striata; margarita, punicea et formosissima iridescente.

Hab.—South America, Don Patricio M. Paz.

FASTI ORNITHOLOGICÆ.

BY JOHN CASSIN.

Woe be to the man who reads but one book!—*Rev. George Herbert.*

My starving bull,

Alack for me,

In pasture full

How lean is he!

Rev. Thomas Fuller.

No. 2.

DER NATURFORSCHER.

A Journal for Natural History, edited by J. C. D. Schreber and J. E. J. Walch.

"Der Naturforscher" was published at Halle from the year 1774 to 1804, that is to say, during a period of thirty years, one part or volume every year, though it is usually bound in fifteen volumes, octavo. Each of the thirty parts is, however, separately paged and has a title page and date of its own, and must be considered and treated as a volume for all practical purposes. The first thirteen volumes are edited by Walch, the last seventeen by Schreber, both of whom are contributors of a large number of papers in various departments of the Zoological and Botanical Sciences. In Zoology the papers of both are mainly on groups of the invertebrata, but the latter occasionally has a valuable article on other subjects and higher orders of animals, and is the eminent and successful author of standard and elaborate works on Mammalogy.

The illustrations in this Journal are generally very superior, many of the colored plates, of Insects and Shells especially, being much above the average of those of a similar description to be found in books of the last century, and all of them seem to be quite sufficient for the easy recognition of species. There are about one hundred and fifty plates in the series, nearly all of which are carefully colored, those of Insects being the most numerous, but of Shells, also, there are a very considerable number. Special allusion will be made to the plates of Birds towards the end of this paper. Of the contents of the entire work as published, Indices and "Registers" are given at the end of every tenth volume, apparently very copious and accurate, and from which it appears that no less than six hundred and four memoirs in all departments of Natural History are contained in these thirty volumes. In Ornithology the contributions are not numerous, and contain but few descriptions of species, but of those few descriptions, nearly all the names proposed would stand good were it not for the recently exhumed names of Prof. P. L. S. Müller. The authors of these contributions are, for the greater part, quite unknown in modern times as ornithological writers.

"Der Naturforscher" seems to have been a very considerable journal in its day, and names amongst its contributors many naturalists of standard and deservedly high reputation. The memoirs on Conchological and Entomological subjects are apparently the most valuable, and are certainly the most numerous and most carefully illustrated. For better or worse it happens that comparatively few of its many papers are devoted to Ornithology, and a large majority 1866.]

of those are of a general or local character, relating mainly to European birds, though several of them are highly interesting. In the entire series of thirty volumes, there are only seven descriptions of species presumed to have been previously unknown, and which we give in a succeeding page of this article; and, also, we propose to give an inventory or general reckoning of the entire ornithological contents of this periodical, not premising in the least that it is either an extended or difficult enterprise. But as we have frequently seen this Journal cited by the older authors, and even occasionally in books of recent formation, (mostly conglomerate,) we have looked up these ornithological articles to the end that hereafter they shall be seen truly, not only by ourselves, but also by such others who, like us, may have found out that there is a difference between hearing and believing, and even between looking and seeing. Any one can look, but comparatively few, see, and, at least, light shall no longer be wanting on "*Der Naturforscher*."

The words of our choice text for this interesting occasion, beloved brethren, we shall not dwell upon nor enlarge upon, even not so much as might conduce to solid profit in a moral sense; both somewhat of time and inclination being wanting, and an homily, fortunately perhaps, not necessary. Who has suffered, beloved, not for his fault, but thine? And in the vast affluence of the field of study and solid acquirement spread before thee, not only in the libraries and museums established by the governments of all civilized nations, but in our own times, in the countries of our native language and by our own contemporaries, such high souled and ever memorable men as Thomas B. Wilson and Henry Bryant, John Henry Gurney and Osbert Salvin, art thou indeed but a starvling? We wait not for answer, but proceed about our business with some soberness of thought, (and with recommendatory suggestion.)

Here follows a list of all the memoirs relating to Ornithology in this Journal, and, at the end of that, a list of the species of Birds therein described, as certainly intended and supposed by the authors (but generally erroneously,) for the first time.

List of memoirs on Ornithology in "Der Naturforscher," alphabetically arranged, after a fashion, so far as relates to the writers of them.

Bechstein, J. M. Bergrath.

1. Bemerkungen über die Motacillen, vol. xxvii. p. 38, (1793.)

Beckmans, Johann, Professor zu Göttingen.

1. Linneische Synonymie zu Kleins verbesserter Historie der Voegel, vol. i. p. 65, (1774.)

Bocks. Consistorialrath zu Königsberg.

1. Preussische Ornithologie, vol. viii. p. 39, (1776); ix. p. 39, (1776); xii. p. 131, (1778); xiii. p. 201, (1779); xvii. p. 66, (1782.)

Götz, Georg Friedrich. Candidatus in Hanau, Lehrer der Durchlauchtigsten Prinzessinnen zu Hessen-Cassel.

1. Anmerkungen zu des Herrn Professor Sanders zweytem Beytrag zur Geschichte der Vögel im 13ten Stück des Naturforschers, S. 179, vol. xv. p. 157, (1781.)
2. Fortgesetzte Beyträge zur Ornithologie, vol. xix. p. 78, (1783.)
3. Ueber die anomalisch weissen Vögel, vol. xvi. p. 37, (1781.)
4. Beytrag zur Naturgeschichte des Mauerspechts, *Certhia muraria*, Linn. vol. xvii. p. 40. (1782.)
5. Naturgeschichte des Silber und weissen Phasans, vol. xvi. p. 122, (1781.)
6. " des Goldphasans, vol. xiv. p. 204, (1780.)
7. " des Kronvogels, *Columba coronata*, Linn., vol. xvii. p. 32, (1782.)

Grillo, F. Professor.

1. Ornithologische Bemerkungen auf Veranlassung des Naturforschers bekannt gemacht, vol. xxii. p. 127, (1787); xxv. p. 13, (1791.)

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Günthers, D. Friedrich Christian, Herzogl. Sachsen Coburgischen Hofraths und Leibarztes zu Cahla.

1. Von der anomalisch-weissen Farbe der Voegel, vol. i. p. 54, (1774.)
2. Von der anomalisch-schwarzen Farbe der Voegel, vol. ii. p. 1, (1774.)
3. Vom Kreuzvoegel, dessen Nest und Eyern, vol. ii. p. 66, (1774.)

Kühn.

1. Von dem Gesange der Voegel, vol. xxi. p. 195, (1785.)
2. Von dem Krünitz oder Krumschnabel (*Loxia curvirostra*,) vol. xxi. p. 197, (1785); xxi. p. 142, (1787.)
3. Von dem Nachtschatten, Ziegen-Melcker (*Caprimulgus*,) vol. xxi. p. 199, (1785.)

Leske.

1. Von den lymphitischen Gefässen in den Vögeln, aus dem 58 Band der philosophischen Transaction, vol. v. p. 188, (1775.)

Murr, Christian Gottlieb, von.

1. Beschreibung des Patagonischen Pinguins, aus dem 58 Band der philosophischen Transactionen, vom Jahre 1769, vol. i. p. 258 (1774.)
2. Von der besten Art, Vögel in Sammlungen aufzubehalten aus dem Gentlemen's Magazine vom J. 1772, vol. i. p. 262.
3. Beyträge zur Thiergeschichte von Ostindien, aus Pennant's Indian Zoology, vol. i. p. 265.
4. Von den Nestern und Eyern der Vögel. Ein Auszug aus Herrn Thom. Pennant's Genera of Birds, vol. i. p. 284.
5. Vom Flug der Vögel, vol. i. p. 291.
6. Von Ornithologischen Systemen, vol. i. p. 292.

Nau, B. S. Professor der Cameralwissenschaften zu Mainz.

1. Beiträge zu nähern Kenntniß der Naturgeschichte einheimischer Voegel, vol. xxv. p. 7 (1791).

Otto, Doctor und Adjunct.

1. Abhandlung von den Abartender Kreutzschnabel, vol. xii. p. 92 (1778).

Pacius, Georg Friedrich.

1. Zwo vortheilhafte Arten Voegel und kleine vierfüssige Thiere auszusupfen, vol. ii. p. 87 (1774).

Sanders, Professor zu Carlsruh.

1. Beyträge zur Geschichte der Voegel, vol. xi. p. 11 (1777), xiii. p. 179, (1779), xviii. p. 232 (1782).
2. Beobachtetes Gewicht einiger Vogel-Eyer, vol. xiv. p. 48 (1780).

Schrank, Franz von Paula, Kurpsalzbaierischen geistlichen Rathe.

1. Zoologische Beobachtungen, vol. xviii. p. 66 (1782).
2. Ueber die anomalisch weisse Farbe der Voegel, vol. xxiii. p. 138 (1788).

Schreber, J. C. D.

1. Beyträge zur exotischen Ornithologie, vol. xvii. p. 12 (1782), xviii. p. 1. (1782.)

Walch, J. E. J. Hofrath.

1. Von der anomalisch-weissen Farbe der Voegel, vol. iv. p. 128 (1774).
2. Beyträge zur exotischen Ornithologie, vol. xi. p. 1 (1777), xiii. p. 11, (1779), xvii. p. 12 (1782).

The following are the species described as previously unknown :—

1. *Trogon fasciatus*, Schreber, Naturforscher, xvii. p. 17 (1782).
Pencrant Ind. Zool. p. 15, pl. 5.
Trogon fasciatus, Gm. Syst. Nat. i. p. 405 (1788).
Harpactes fasciatus (Schreber)!!

1866.]

This name happens to be the same as that of Gmelin, but Schreber is the first to apply it, and is, therefore, to be cited as authority. It is given by both authors to the bird figured by Pennant as cited, but what that is cannot be so easily settled.

2. *Todus cristatus*, Schreber, *Naturfors.* xvii. p. 21 (1782).

Buff. Pl. Enl. 289. *Der Naturforscher*, xvii. pl. 7.

Up to Gmelin, the synonymy of this species stands:

Muscicapa coronata, Müller, *Syst. Nat. Supp.* p. 168 (1776).

Todus cristatus, Schreb., *Der Naturfors.* xvii. p. 21 (1782.)

Todus regius, Gm., *Syst. Nat. i.* p. 445 (1788.)

Muscivora coronata (Müller)!!

3. *Xanthornus virens*, Schreber, *Naturfors.* vol. xviii. p. 1 (1782.)

Buff. Pl. Enl. 328, *Der Naturf.* xviii. pl. 1.

The synonymy of this species is:

Oriolus viridis, Müller, *Syst. Nat. Supp.* p. 87 (1776.)

Xanthornus virens, Schreb., *Der Naturfors.* xviii. p. 1 (1782.)

Oriolus viridis, Boddaert, *Tab. Pl. Enl.* p. 20 (1783.)

Cassicus viridis, Vieill. *Nouv. Dict. v.* p. 364 (1816.)

Cassicus viridis (Müller)!!

Müller comes in again several lengths ahead of Schreber and Boddaert, and Vieillot is nowhere, though currently reported for about fifty years as having won, by error of the judges. Both of Schreber's plates above cited are recognizable and, in fact, much better than usual at the date of the performance. This is the same Schreber famous as a Mammalogist, but the papers here referred to are his only attempts at Ornithology, so far as I know, and so successful that his three species here mentioned would have stood, but for Prof. Müller's long-neglected names.

4. *Scolopax punctata*, Nau, *Naturfors.* xxv. p. 7 (1791.)

"*Scolopax rostro arcuato, gula rufescente, dorso fusco, punctis albis, pedibus nigris.*" Hab.—Europe.

Probably the young or a seasonal plumage of *Totanus ochropus*, and also probably the same plumage subsequently described as *Tringa littorea*, Lath. *Ind. Orn.* ii. p. 731. A full description is given in German, which seems applicable, as we have stated. Professor Nau is or was well known as a Botanist, but this is his first and only appearance as an Ornithologist.

5. *Motacilla longirostra*, Bechstein, *Naturfors.* xxvii. p. 43 (1793.)

Quite an extended description of this species is given by Bechstein, but I fail to recognize it, and do not find it again alluded to in the works of that author. It is given as an European bird.

6. *Motacilla Sibilatrix*, Bechstein *Naturfors.* xxvii. p. 47 (1793.)

Sylvia sylvicola, Lath. *Ind. Orn. Supp.* p. 53 (1801.)

Phyllopneuste sibilatrix (Bechst.) Brehm!

7. *Motacilla Fitis*, Bechstein, *Naturfors.* xxvii. p. 50 (1793.)

Motacilla Trochilus, Linn. *Syst. Nat. i.* p. 338 (1766)?

Phyllopneuste fitis (Bechst.) Brehm!!

The plates of birds are as follows:

Pipra rupicola, Linnæus, vol. xi. pl. 1.

Gracula carunculata, Gmelin, vol. xi. pl. 2.

Picus miniatus, Gmelin, vol. xiii. pl. 4.

Muscicapa coronata, Müller, vol. xvii. pl. 1.

Oriolus viridis, Müller, vol. xviii. pl. 1.

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